

AMENDMENTS TO THE CLAIMS

1. (Currently amended) An acrylic pressure-sensitive adhesive tape comprising:

(a) a layer of an acrylic backing comprising

(i) from about 88% to about 92% of an acrylic polymer comprising:

from about 35% to about 45% of a first alkyl acrylate monomer having alkyl groups which contain from 4 to 12 carbon atoms,

from about 30% to about 40% of a second alkyl acrylate monomer having alkyl groups which contain from 4 to 12 carbon atoms, wherein said second alkyl acrylate monomer is independent from said first alkyl acrylate monomer,

from about 6% to about 10% of a first monoethylenically unsaturated polar copolymerizable monomer, and

from about 1% to about 2% of a second monoethylenically unsaturated polar copolymerizable monomer, wherein said second monoethylenically unsaturated polar copolymerizable monomer is independent from said first monoethylenically unsaturated polar copolymerizable monomer; and

(ii) from about 8% to about 12% of hollow glass microspheres dispersed evenly in said polymer; and

(b) at least one layer of a pressure-sensitive adhesive disposed on at least one side of said layer of said acrylic backing; and

(c) a primer layer disposed between said layer of said acrylic backing and said layer of said pressure sensitive adhesive, said primer layer comprising a primer selected from the group of primers consisting of polyamide solution, polyamide emulsion, nitrile rubber based solution, nitrile rubber based emulsion, natural rubber based solution, natural rubber based emulsion, ethylene-propylene copolymer rubber based solution, ethylene-propylene copolymer rubber based emulsion, ethylene-propylene-diene monomer terpolymer rubber based solution, ethylene-propylene-diene monomer terpolymer rubber based emulsion, poly(ethylene-co-vinyl acetate) solution, poly(ethylene-co-vinyl) acetate emulsion, poly(ethylene-co-vinyl acetate and alcohol) solution, poly(ethylene-co-vinyl acetate and alcohol) emulsion, silane modified rubber solutions, and silane modified elastomer solutions.

2. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 1, wherein the acrylic polymer includes from about 0.3% to about 0.5% of initiator.

3. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 2, wherein the initiator comprises at least one photoinitiator.

4. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 1, wherein the acrylic polymer includes from about 0.05% to about 0.07% of a crosslinker/chain extender.

5. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 4, wherein the crosslinker/chain extender is a multifunctional acrylate.

6. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 4, wherein the crosslinker/chain extender is a multi-ethylenically unsaturated copolymerizable monomer containing at least two carbon-carbon double bonds.

7. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 4, wherein:

the crosslinker/chain extender is taken from the group consisting of ethylene glycol diacrylate, triethylene glycol diacrylate, 1,4-butanediol diacrylate, 1,6-hexanediol diacrylate, trimethylolpropane triacrylate, pentaerythritol triacrylate, tetraethylene glycol diacrylate, methacrylates, and combinations thereof.

8. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 1, wherein the acrylic polymer includes from about 1% to about 2% of a filler.

9. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 8, wherein filler is a fumed silica.

10. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 8, wherein filler is a surface modified silica.

11. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 1, wherein:

the first alkyl acrylate monomer is iso octyl acrylate,
the second alkyl acrylate monomer is 2-ethylhexyl acrylate,

the first monoethylenically unsaturated polar copolymerizable monomer is acrylic acid,

the second monoethylenically unsaturated polar copolymerizable monomer is acrylamide, and

the hollow glass microspheres are borosilicate glass.

12. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 11, wherein the acrylic polymer further comprises:

from about 0.3% to about 0.5% of initiator,

from about 1% to about 2% of a filler, and

from about 0.05% to about 0.07% of a crosslinker/chain extender.

13. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 12, wherein the initiator comprises at least one photoinitiator.

14. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 13, wherein the photoinitiator is benzoin ethyl ether.

15. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 11, wherein the filler is fumed silica.

16. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 11, wherein the filler is a surfaced modified silica.

17. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 11, wherein the crosslinker/chain extender is 1,4 butanediol diacrylate.

18. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 11, wherein the acrylic backing comprises:

from about 40% to about 41% iso octyl acrylate;

from about 36% to about 37% 2-ethylhexyl acrylate;

from about 8% to about 9% acrylic acid;

from about 1% to about 2% acrylamide; and

from about 10% to about 11% borosilicate glass.

19. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 18, wherein the acrylic backing further comprises:

- from about 0.35% to about 0.45% benzoin ethyl ether;
- from about 1% to about 2% fumed silica; and
- from about 0.055% to about 0.065% 1,4 butanediol diacrylate.

20. (Previously amended) The acrylic pressure-sensitive adhesive tape according to claim 1, wherein the backing further comprises:

- a sufficient amount of colorant to depart color to the adhesive tape.

41. (Cancelled)

42. (Cancelled)